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Volume 12 Issue 12 - December 2023

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## Director's Message



While cleaning out some old personal files, my family came across our grandmother's hand-written copy of a classic Christmas poem. Written by Eugene Field, "[Jest 'Fore Christmas](#)" is a 19th century tale that recalls simpler times. The poem's central character is a boy named William. It is likely that this particular work caught my grandmother's

attention since her husband and oldest son were both named William.

Now, as we read the yellowed and fragile notepaper that bears our grandmother's distinctive handwriting, we can recall many fond memories of her and our family, especially during Christmas. With the holidays and busy year-end schedules upon us once again, we invite you to take the time to make special memories with family and friends and to file them in your heart so that you may easily find them in the future.

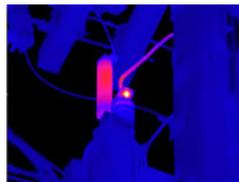
To all of our readers, friends, and associates throughout the world, please accept a heartfelt thank you for everything that you do for us all year long. May your holidays be filled with peace and joy and your New Year with good health and happiness.

~ Jim Seffrin and the Staff of Infraspection Institute

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## Focus, Focus, Focus

Proper image focus is still one of the most important aspects of performing an infrared inspection. A clear image not only allows for optimal problem diagnosis, but it is also critical to accurate temperature measurement.



Clear focus is not difficult to achieve if you follow a few simple steps:

- Get as close as safely possible to your target
- Take time to carefully focus for optimum clarity. This may take some practice if you have a motorized focus mechanism
- Ascertain that your target is stationary
- Only shoot from a stable platform. If imaging from a motor vehicle, it may be desirable to shut off the engine to avoid vibration.

## Upcoming Courses

### [Online Distance Learning](#)

### [Level I Certified Infrared Thermographer®](#)

- Dec 4 - 8 West Windsor
- Dec 4 - 8 Melbourne
- Dec 4 - 8 Tempe
- Dec 11 - 15 Trinidad
- Jan 2 - 5 Vancouver
- Jan 8 - 12 Tucson
- Jan 9 - 12 Victoria
- Jan 22 - 26 Santa Barbara
- Jan 22 - 26 Quezon City
- Feb 5 - 9 Colorado Springs
- Feb 12 - 16 Quezon City
- Feb 19 - 23 West Windsor
- Feb 19 - 23 Kuala Lumpur
- Feb 26 - Mar 1 Long Beach
- Feb 26 - Mar 1 Halifax
- Feb 25 - Mar 1 Gold Coast
- Mar 4 - 8 Melbourne
- Mar 6 - 8 Melbourne \*
- Mar 4 - 8 Boulder City
- Mar 5 - 8 Edmonton
- Mar 11 - 15 Quezon City
- Mar 12 - 15 Calgary
- Mar 18 - 22 Sydney
- Mar 20 - 22 Sydney \*
- Mar 25 - 29 Honolulu

\* Flexible Learning

Be sure your imager is steady as you capture the image. Gently push the store button rather than punching it. If using a handheld imager, consider using a tripod or monopod to help stabilize your imager.

Once you've stored an image, recall and check for clarity. If the results are less than perfect, start over. In addition to greater accuracy, capturing clear images makes it easier to convey information to the end user and/or the person who will eventually perform corrective actions.

### [More Information](#)

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## A Hidden Danger in Electrical Systems



Although thermography is a non-contact test, preparing for an infrared inspection of electrical equipment often requires manual preparation of switchgear components. Unwary thermographers and their assistants can be injured by making contact with cabinets or component surfaces that have become accidentally or

unintentionally energized.

Switchgear enclosures and components are generally designed to prevent their surfaces from becoming energized. However, under certain circumstances, switchgear enclosures and other dielectric surfaces can become unintentionally energized to significant voltage levels. This potentially lethal condition may be caused by improper wiring, faulty equipment, or contamination due to dirt or moisture.

The above image shows a potential of 265 volts AC between a molded case circuit breaker and ground. This condition was discovered after an unprotected worker received a shock by touching the phenolic breaker handle.

Whenever working on or near energized electrical equipment, treat all devices and enclosures as though they are energized and never touch enclosures or devices without proper PPE.

### [More Information](#)

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## Attend IR/INFO 2024 and Get Discounted Training!

In celebration of IR/INFO's 34th anniversary, Infrasppection Institute are pleased to announce several special offers combining the world's most respected infrared training and certification program with the industry's original technical conference.



Several packages are available featuring discounts on Level I, II, and III Infrasppection Institute Certified Infrared Thermographer® training courses and TI Reporter™ software. Discounted group rates are available for four or more persons.

### [Level II Certified Infrared Thermographer®](#)

- Dec 18 - 22 Trinidad
- Mar 11 - 15 West Windsor

### [Level III Certified Infrared Thermographer®](#)

- Mar 18 - 20 West Windsor

### [Full 2023 - 2024 Schedule](#)

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## Upcoming Conferences

Infrasppection Institute invite you to see us at the following upcoming conferences. Be sure to stop by and say Hello!

### [IR/INFO Conference](#)

January 14 - 17, 2024  
Orlando, FL

### [NETA PowerTest Conference](#)

February 26 - March 1, 2024  
Dallas, TX

### [NFMT](#)

March 12 - 14, 2024  
Baltimore, MD

### [SMRP Conference](#)

October 7 - 10, 2024  
Orlando, FL

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## Links of Interest

[IRINFO.ORG](#)

[TI-Reporter.com](#)

[NORMI.TV](#)

[A-Rent](#)

[More Information](#)

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## Give Yourself a Present



[Become an Infraspection Institute Master Thermographer®](#)

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